NC/QC/W-06/2019-20/RC-C1

Date: 29-04-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**162 min**	Shall not be less than 30 min
2	Final setting time	**270 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.92 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.12mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.52 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/W-06/2019-20/RC-PCC1 Date: 29-04-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	*Single size*	*Graded*
40mm	**100.00**	85-100	90 -- 100
20mm	**64.05**	0 -20	30- 70
10mm	**27.60**	0 -5	10- 35
4.75mm	**4.10**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**98.05**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**87.10**	60-95	75-100	85-100	
01.18	**76.25**	30-70	55-90	75-100	
600.mic	**46.30**	15-34	35-59	60-79	
300.mic	**17.05**	5-20	8-30	12-40	
150.mic	**7.30**	0-10	0-10	0-10	

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NC/QC/W-06/2019-20/RC-C2 **Date: 02-05-2019**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**158 min**	Shall not be less than 30 min
2	Final setting time	**270 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.89 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.09 mm**	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	**28.40N/Sq mm**	Shall not be less than 27 N/Sqmm

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Proprietor

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NC/QC/W-06/2019-20/RC-PCC2 **Date: 02-05-2019**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**63.10**	0 -20	30- 70
10mm	**25.90**	0 -5	10- 35
4.75mm	**4.15**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**97.50**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**89.60**	60-95	75-100	85-100	
01.18	**74.05**	30-70	55-90	75-100	
600.mic	**45.30**	15-34	35-59	60-79	
300.mic	**18.55**	5-20	8-30	12-40	
150.mic	**7.15**	0-10	0-10	0-10	

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NC/QC/W-06/2019-20/RC-C3 **Date: 04-05-2019**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**162 min**	Shall not be less than 30 min
2	Final setting time	**275min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.78 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.16mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results	**28.05 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/W-06/2019-20/RC-FA1 **Date: 04-05-2019**

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.

{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.

Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**98.60**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**89.45**	60-95	75-100	85-100	
01.18	**75.60**	30-70	55-90	75-100	
600. mic	**36.05**	15.34	35-59	60-79	
300.mic	**18.25**	5-20	8-30	12-40	
150.mic	**7.10**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**17.82 %**	-----
2	Silt Content	----	**0.63%**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

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NC/QC/W-06/2019-20/RC-CA1 **Date: 04-05-2019**

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	97.60	85-100	90 - 100
10 mm	48.45	0 - 20	25 - 55
4.75 mm	3.10	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	22.68 %	Not to exceed 25 %
2.	Crushing value	26.54%	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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NC/QC/W-06/2019-20/RC-S1 **Date: 04-05-2019**

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 10 and 12 mm **TMT Steel.**

{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

TABLE – 1

SL No	Details	For 10 mm		For 12 mm	
		Test Results	Min Req. as per IS 1786-2008	Test Results	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**10.0 mm**	10.0 mm	**8.0 mm**	12.0 mm
02	Observed Wt/m Length Kg/m	**0.623**	0.567	**0.893**	0.834
03	Proof stress/Yield stress, fy , N/mm^2	**548.0**	500.0	**542.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**20.30**	12.00	**21.60**	12.00
06	Ultimate Tensile Strength N/mm^2	**638.0**	545.0	**631.0**	545.0

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NC/QC/W-06/2019-20/RC-CB1

Date: 13-05-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.

Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	06-05-19	13-05-19	07	22500	365	16.22	16.15
	002	"	"	"	"	355	15.78	
	003	"	"	"	"	370	16.44	

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NC/QC/W-06/2019-20/RC-CB2

Date: 15-05-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.

Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	08-05-19	15-05-19	07	22500	375	16.67	**16.52**
	002	"	"	"	"	360	16.00	
	003	"	"	"	"	380	16.89	

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Proprietor

NC/QC/W-06/2019-20/RC-CB3

Date: 17-05-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.

Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength* (N/mm^2)	Avg. Value
1	001	10-05-19	17-05-19	07	22500	360	16.00	**16.07**
	002	"	"	"	"	355	15.78	
	003	"	"	"	"	370	16.44	

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NC/QC/W-06/2019-20/RC-CB1a **Date: 03-06-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.

Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	06-05-19	03-06-19	29	22500	510	22.67	**22.74**
	002	"	"	"	"	500	22.22	
	003	"	"	"	"	525	23.33	

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Date: 05-06-2019

NC/QC/W-06/2019-20/RC-CB2a

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.

Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	08-05-19	05-06-19	28	22500	515	22.89	**22.81**
	002	"	"	"	"	505	22.44	
	003	"	"	"	"	520	23.11	

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NC/QC/W-06/2019-20/RC-CB3a **Date: 07-06-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.
Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	10-05-19	07-06-19	28	22500	525	23.33	**22.67**
	002	"	"	"	"	500	22.22	
	003	"	"	"	"	505	22.44	

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Page No. 1/1,

For Newzen Consultants Bangalore

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Bangalore

Proprietor

NC/QC/W-06/2019-20/RC-C4 **Date: 08-05-2019**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**158min**	Shall not be less than 30 min
2	Final setting time	**270min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.87 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.20 mm**	Shall not be more than 10 mm
5	Compressive strength c) 3 days (average of three results)	**28.65 N/Sq mm**	Shall not be less than 27 N/Sqmm

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